

## KANAB CREEK BASIN

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## 09403600 KANAB CREEK NEAR KANAB, UT

LOCATION.--Lat 37°06'02", long 112°32'50", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 5, T. 43 S., R. 6 W., Kane County, Hydrologic Unit 15010003, on left bank at upstream side of bridge on U.S. Highway 89, 300 ft upstream from Tiny Canyon and 3.5 mi north of Kanab.

DRAINAGE AREA.--198 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1959 to September 1968 (peaks only). January 1979 to current year

REVISED RECORDS.--WDR UT-98-1: 1997, daily values.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,060 ft above NGVD of 1929, from topographic map. A crest-stage gage from July 22, 1959 to September 30, 1968 at different datum. July 6, 1979 to September 18, 1984 water-stage recorder at same site, different datum.

REMARKS.--Records poor. Several diversions above station for irrigation and stock watering.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,030 ft<sup>3</sup>/s, Sep 8, 1961, gage height, 8.39 ft, from rating curve extended above 31 ft<sup>3</sup>/s on basis of slope area measurement at gage height, 7.09 ft; minimum daily discharge, 2.9 ft<sup>3</sup>/s, Jul 27, 2000.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft<sup>3</sup>/s and maximum (\*):

	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)		Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
	Aug 19	1845	*237	*9.93					No other peak greater than base discharge.

Minimum daily discharge, 2.9 ft<sup>3</sup>/s, Oct 16.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	4.0	6.7	6.6	7.5	e6.5	7.6	7.1	4.3	6.4	6.3	4.9
2	4.1	4.7	6.6	6.0	7.3	e7.0	7.7	6.9	4.0	6.3	6.4	4.9
3	6.0	4.6	7.0	6.3	7.8	e7.0	7.8	6.8	3.9	5.9	6.1	4.7
4	4.2	5.2	6.9	e6.0	7.6	6.8	7.4	6.5	4.0	5.9	5.9	4.9
5	3.9	5.8	6.9	e5.5	7.4	6.8	7.8	6.4	3.9	5.7	5.5	5.1
6	3.6	5.7	7.1	e6.0	7.3	6.8	7.3	6.6	3.9	5.6	6.3	5.0
7	3.3	5.1	6.7	7.2	7.4	6.6	9.1	6.7	e4.0	5.7	14	4.8
8	3.2	5.3	7.3	7.5	7.2	7.2	9.9	6.6	e3.8	5.8	4.8	4.9
9	3.2	4.9	6.7	7.1	7.2	8.6	10	6.2	e3.8	6.1	4.8	4.9
10	3.1	5.2	6.6	6.8	7.4	12	10	6.2	e3.8	6.3	5.4	4.8
11	3.0	5.6	6.9	5.8	7.5	21	9.9	5.9	e3.9	6.0	5.6	4.8
12	3.0	6.2	6.9	5.7	7.5	19	9.4	6.1	e3.9	6.1	5.8	4.9
13	3.0	6.2	6.6	5.7	7.8	27	9.4	6.5	e3.9	5.1	6.1	4.7
14	3.2	6.1	6.7	5.5	7.6	38	9.3	6.5	e4.2	5.6	6.4	5.0
15	3.1	6.1	7.0	5.3	7.6	37	8.8	6.1	4.2	6.2	6.4	5.2
16	2.9	6.4	8.1	5.7	7.7	23	8.3	6.4	4.6	6.1	5.5	5.2
17	3.2	6.0	8.1	5.1	7.4	22	8.1	6.4	4.9	5.6	5.0	5.2
18	3.2	6.3	7.5	4.9	7.5	22	8.7	6.1	4.5	6.4	5.1	5.1
19	3.6	6.6	7.8	5.0	7.7	23	7.8	5.3	4.5	6.1	51	8.3
20	3.5	6.6	8.0	5.2	7.2	22	7.7	5.4	4.5	5.7	22	6.3
21	3.4	6.5	7.9	5.2	7.0	19	7.2	5.7	4.6	6.1	5.1	6.4
22	3.4	6.9	8.5	5.0	6.7	15	6.8	6.0	5.0	6.0	5.2	6.7
23	3.8	8.2	8.7	5.1	6.6	11	6.7	6.1	5.1	6.0	5.6	6.3
24	3.6	7.4	8.1	5.0	6.8	9.0	6.7	5.7	5.2	6.2	5.6	6.1
25	3.5	7.0	7.3	5.3	7.1	7.0	6.5	5.2	5.6	7.1	5.6	6.0
26	4.0	7.5	7.8	6.5	e7.5	6.5	6.3	5.0	5.3	7.0	5.4	5.8
27	4.2	7.4	8.0	6.5	e7.0	6.6	6.3	4.8	5.7	8.3	5.2	5.8
28	3.7	7.4	15	6.1	e6.5	7.2	6.1	4.8	6.3	8.4	5.2	e6.2
29	3.8	7.2	8.6	6.2	e6.5	7.3	6.9	4.9	6.5	7.1	5.4	e6.7
30	3.7	7.0	7.1	6.8	---	7.4	7.7	5.0	6.7	6.9	5.1	e6.1
31	3.6	---	6.5	7.6	---	7.0	4.3	---	7.0	4.9	---	---
TOTAL	110.8	185.1	235.6	184.2	211.3	432.3	239.2	184.2	138.5	194.7	242.7	165.7
MEAN	3.57	6.17	7.60	5.94	7.29	13.9	7.97	5.94	4.62	6.28	7.83	5.52
MAX	6.0	8.2	15	7.6	7.8	38	10	7.1	6.7	8.4	51	8.3
MIN	2.9	4.0	6.5	4.9	6.5	6.5	6.1	4.3	3.8	5.1	4.8	4.7
AC-FT	220	367	467	365	419	857	474	365	275	386	481	329

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, BY WATER YEAR (WY)

MEAN	9.99	9.69	10.5	12.0	15.4	23.7	21.2	9.41	6.83	6.98	8.13	9.62
MAX	25.7	15.2	21.7	27.9	45.1	72.4	132	27.6	12.1	13.8	16.5	28.1
(WY)	(1982)	(1988)	(1980)	(1997)	(1980)	(1983)	(1980)	(1980)	(1981)	(1981)	(1981)	(1998)
MIN	3.57	5.33	5.31	5.15	5.64	8.83	6.81	5.62	4.36	3.90	4.07	4.77
(WY)	(2004)	(2002)	(1990)	(2002)	(2002)	(2002)	(1990)	(2001)	(1986)	(2000)	(1995)	(2002)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1980 - 2004
ANNUAL TOTAL	3,254.2	2,524.3	
ANNUAL MEAN	8.92	6.90	
HIGHEST ANNUAL MEAN			11.9
LOWEST ANNUAL MEAN			28.4
HIGHEST DAILY MEAN	85	Mar 17	5.96
LOWEST DAILY MEAN	2.9	Oct 16	1980
ANNUAL SEVEN-DAY MINIMUM	3.0	Oct 10	2002
ANNUAL RUNOFF (AC-FT)	6,450	5,010	354
10 PERCENT EXCEEDS	14	8.3	Apr 6, 1980
50 PERCENT EXCEEDS	7.1	6.3	Jul 27, 2000
90 PERCENT EXCEEDS	3.9	4.0	Jun 13, 1986

e Estimated

